

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4980002/RWE/KKVAPPLICATION NO.
09/599,594APPLICANT
Nazarenko et al.FILING DATE
June 22, 2000GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>N</i>	AA1	4,358,535	11/09/1982	Falkow et al.	435	5	12/08/1980
	AB1	4,446,237	05/01/1984	Berninger	436	504	03/27/1981
	AC1	4,563,417	01/07/1986	Albarella et al.	435	6	01/07/1986
	AD1	4,581,333	04/08/1986	Kourilsky et al.	435	6	04/29/1982
	AE1	4,582,788	04/15/1986	Erlich	435	6	01/07/1983
	AF1	4,582,789	04/15/1986	Sheldon, III et al.	435	6	12/18/1984
	AG1	4,683,194	07/28/1987	Saiki et al.	435	6	03/28/1985
	AH1	4,683,202	07/28/1987	Mullis	435	91	10/25/1985
	AI1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
<i>X</i>	AJ1	4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987
<i>X</i>	AK1	5,047,342	09/10/1991	Chatterjee	435	194	08/10/1989

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>N</i>	AL1	EP 0 50,424	09/24/1981	Europe			Yes No
	AM1	EP 0 84,796	01/11/1983	Europe			Yes No
	AN1	EP 0 144 914	11/29/1984	Europe			Yes No
	AO1	EP 0 119 448	02/10/1984	Europe			Yes No
<i>N</i>	AP1	EP 0 201 184	03/27/1986	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>N</i>	AR	<u>1</u>	Abe, T., et al., "Specific inhibition of influenza virus RNA polymerase and nucleoprotein gene expression by circular dumbbell RNA/DNA chimeric oligonucleotides containing antisense phosphodiester oligonucleotides," <i>FEBS Lett.</i> 425:91-96, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1998).
<i>N</i>	AS	<u>1</u>	Austermann, S., et al., "Inhibition of Human Immunodeficiency Virus Type 1 Reverse Transcriptase by 3'-Blocked Oligonucleotide Primers," <i>Biochem. Pharmacol.</i> 43:2581-2589, Elsevier Science, Oxford, England (1992).
<i>N</i>	AT	<u>1</u>	Barnes, W.M., "The fidelity of Taq polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1992).

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	FILING DATE June 22, 2000	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
✓	AA2	5,079,352	01/07/1992	Gelfand et al.	536	27	05/15/1990
	AB2	5,143,854	09/01/1992	Pirrung et al.	436	518	03/07/1990
	AC2	5,137,814	08/11/1992	Rashtchian et al.	435	91	06/14/1991
	AD2	5,194,370	03/16/1993	Berninger et al.	436	501	05/16/1990
	AE2	5,244,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991
	AF2	5,252,743	10/12/1993	Barrett et al.	548	303.7	11/13/1990
	AG2	5,270,179	12/14/1993	Chatterjee	435	69.1	01/28/1992
	AH2	5,334,515	08/02/1994	Rashtchian et al.	435	91.2	03/29/1993
✓	AI2	5,338,671	08/16/1994	Scalice et al.	435	91.2	10/07/1992
✓	AJ2	5,348,853	09/20/1994	Wang et al.	435	6	12/16/1991
	AK2	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
✓	AL2	EP 0 237 362	03/13/1987	Europe			Yes No
✓	AM2	EP 0 258 017	08/21/1987	Europe			Yes No
✓	AN2	EP 0 329 822	08/26/1988	Europe			Yes No
✓	AO2	WO 88/10315	12/29/1988	WIPO			Yes No
✓	AP2	WO 89/06700	07/27/1989	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	2	Bonnet, G., et al., "Thermodynamic basis of the enhanced specificity of structured DNA probes," <i>Proc. Natl. Acad. Sci. USA</i> 96:6171-6176, National Academy of Sciences of the USA, Washington, D.C. (May 1999).
2	AS	2	Cardullo et al, "Detection of nucleic acid hybridization by non radiative fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 85:8790-8794, National Academy of Sciences of the USA, Washington, D.C. (1988).
2	AT	2	Chedin, F., et al., "Novel homology of replication protein A in archaea: implications for the evolution of ssDNA-binding proteins," <i>TIBS</i> 23:273-277, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1998).

EXAMINER	DATE CONSIDERED 2/6/08
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2	AA3	5,436,149	07/25/1995	Barnes	435	194	02/19/1993
	AB3	5,436,327	07/25/1995	Southern et al.	536	25.34	10/21/1989
	AC3	5,445,934	08/29/1995	Fodor et al.	435	6	10/30/1992
	AD3	5,449,603	09/12/1995	Nielson et al.	435	6	10/24/1989
	AE3	5,455,166	10/03/1995	Walker	435	91.2	01/09/1992
	AF3	5,512,462	04/30/1996	Cheng	435	91.2	02/25/1994
	AG3	5,578,467	11/26/1996	Schuster et al.	435	91.2	05/20/1994
	AH3	5,587,287	12/24/1996	Scalice et al.	435	6	04/07/1994
	AI3	5,593,840	01/14/1997	Bhatnagar et al.	435	6	06/05/1995
	AJ3	5,594,183	01/14/1997	Colin	73	864.52	07/26/1994
	AK3	5,595,890	01/21/1997	Newton et al.	435	91.2	02/17/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
2	AL3	WO 90/03446	04/5/1990	WIPO			Yes No
13	AM3	WO 92/06188	04/16/1992	WIPO			Yes No
13	AN3	WO 92/06200	04/16/1992	WIPO			Yes No
14	AO3	WO 92/14845	09/03/1992	WIPO			Yes No
2 15	AP3	EP 0 684 315	03/13/1995	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	3	Clegg, R.M., et al., "Fluorescence Resonance Energy Transfer Analysis of the Structure of the Four-Way DNA Junction," <i>Biochem.</i> 31:4846-4856, American Chemical Society, Washington D.C. (1992).
2	AS	3	Clegg, R.M., "Fluorescence Resonance Energy Transfer and Nucleic Acids," <i>Methods Enzymol.</i> 211:353-388, Academic Press Inc., New York, NY (1992).
2	AT	3	Clegg, R.M., et al., "Observing the helical geometry of double-stranded DNA in solution by fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 90:2994-2998, National Academy of Sciences of the USA, Washington, D.C. (1993).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
2	AA4	5,599,695	02/04/1997	Pease et al.	435	91.1	02/27/1995
	AB4	5,605,824	02/25/1997	Nielson et al.	435	194	06/16/1993
	AC4	5,614,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AD4	5,639,611	06/17/1997	Wallace et al.	435	6	11/09/1994
	AE4	5,646,019	07/08/1997	Nielson et al.	435	91.5	04/07/1994
	AF4	5,668,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996
	AG4	5,728,526	03/17/1998	George, Jr. et al.	435	6	01/07/1995
	AH4	5,763,170	06/09/1998	Raybuck	435	6	06/05/1995
	AI4	5,773,257	06/30/1998	Nielson et al.	435	91.1	06/06/1995
	AJ4	5,800,992	09/01/1998	Fodor et al.	435	6	06/25/1996
	AK4	5,837,832	11/17/1998	Chee et al.	536	22.1	05/16/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
2	AL4	WO 96/10640	04/11/1996	WIPO			Yes No
	AM4	EP 0 436 644 B1	04/17/1996	Europe			Yes No
	AN4	EP 0 795 612 A2	09/17/1997	Europe			Yes No
	AO4	WO 98/35060	08/13/1998	WIPO			Yes No
	AP4	WO 98/47921	10/29/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	4	Flaman, J.-M., et al., "A rapid PCR fidelity assay," Nucl. Acids Res. 22:3259-3260, Oxford University Press, Oxford, England (1994).
2	AS	4	Forster, Z., "Experimentelle und theoretische Untersuchung des zwischenmolekularen Übergangs von Elektronenanregungsenergie," Z. Naturforsch 4A:321-327, Verlag der Zeitschrift für Naturforschung, Tübingen, Germany (1949).
2	AT	4	Gerard, G.F., et al., "cDNA Synthesis by Moloney Murine Leukemia Virus Rnase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," FOCUS 14:91-93, Life Technologies, Inc., Gaithersburg, MD (1992).

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2	AA5	5,846,729	12/08/1998	Wu et al.	435	6	07/01/1997
	AB5	5,866,336	02/02/1999	Nazarenko et al.	435	6	01/03/1997
	AC5	5,869,251	02/09/1999	Schuster et al.	435	6	11/25/1996
	AD5	5,876,930	03/02/1999	Livak et al.	435	6	11/15/1995
	AE5	5,925,517	07/20/1999	Tyagi, et al.	435	6	05/12/1995
	AF5	5,948,899	09/07/1999	Arnold, Jr. et al.	536	24.3	06/05/1995
	AG5	5,952,172	09/14/1999	Mende et al.	435	6	06/12/1997
	AH5	6,037,130	03/14/2000	Tyagi, et al.	435	6	07/28/1998
	AI5	6,048,690	04/11/2000	Heller et al.	435	6	05/14/1997
	AJ5	6,090,552	07/18/2000	Nazarenko et al.	435	6	07/11/1997
	AK5	5,714,331	02/03/1998	Buchardt et al.	435	6	07/24/1996

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
2	AL5	WO 99/10366	03/04/1999	WIPO			Yes No
	AM5	EP 0 795 612 A3	03/24/1999	Europe			Yes No
	AN5						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	5	Holland, P.M., et al., "Detection of specific polymerase chain reaction product by utilizing the 5'→3' exonuclease activity of <i>Thermus aquaticus</i> DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 88:7276-7280, National Academy of Sciences of the USA, Washington, D.C. (1991).
2	AS	5	Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," <i>J. Virol.</i> 29:517-522, American Society for Microbiology, Baltimore, MD (1979).
2	AT	5	Idriss, H., and Stammers, D.K., "Inhibition of HIV-1 Reverse Transcriptase by Defined Template/Primer DNA Oligonucleotides: Effect of Template Length and Binding Characteristics," <i>J. Enzyme Inhib.</i> 8:91-112, Harwood Academic, Chur, New York (1994).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
✓	AA6	5,736,336	04/07/1998	Buchardt et al.	435	6	05/01/1997
	AB						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	6	Jendis, J., et al., "Inhibition of Replication of Fresh HIV Type 1 Patient Isolates by a Polypurine Tract-Specific Self-Complementary Oligodeoxynucleotide," <i>AIDS Res. Human Retrov.</i> 12:1161-1168, Mary Ann Leibert, Inc., Publishers, Larchmont, NY (1996).
2	AS	6	Ju, J., et al., "Fluorescence energy transfer dye-labeled primers for DNA sequencing and analysis," <i>Proc. Natl. Acad. Sci. USA</i> 92:4347-4351, National Academy of Sciences of the USA, Washington, D.C. (1995).
2	AT	6	Kainz, A.P., et al., "Specificity-Enhanced Hot-Start PCR: Addition of Double-Stranded DNA Fragments Adapted to the Annealing Temperature," <i>BioTechniques</i> 28:278-282, Eaton Publishing Company, Natick, MA (February 2000).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	7	Kelly, T.J., et al., "Identification and characterization of a single-stranded DNA-binding protein from the archaeon <i>Methanococcus jannaschii</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 95:14634-14639, National Academy of Sciences of the USA, Washington, D.C. (1998).
1	AS	7	Kleppe, K., et al., "Studies on Polynucleotides. XCVI. Repair Replications of Short Synthetic DNA's as Catalyzed by DNA Polymerases," <i>J. Mol. Biol.</i> 56:341-361, Academic Press, Inc., New York, NY (1971).
2	AT	7	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, Oxford University Press, Oxford, England (1988).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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h	AR	8	Kuwasaki, T., et al., "Hairpin Antisense Oligonucleotides Containing 2'-Methoxynucleosides with Base-Pairing in the Stem Region at the 3'-end: Penetration, Localization, and Anti-HIV Activity," <i>Biochem. Biophys. Res. Commun.</i> 228:623-631, Academic Press, Inc., Orlando, FL (1996).
h	AS	8	Kwoh, D.Y., et al., "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format," <i>Proc. Natl. Acad. Sci. USA</i> 86:1173-1177, National Academy of Sciences of the USA, Washington, D.C. (1989).
h	AT	8	Lawyer, F.C., et al., "High-Level Expression, Purification, and Enzymatic Characterization of Full-Length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1993).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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2	AR	2	Lee, L.G., et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes," <i>Nucl. Acids Res.</i> 21:3761-3766, Oxford University Press, Oxford, England (1993).				
2	AS	2	Luo, G., et al., "Inhibition of influenza viral polymerases by minimal viral RNA decoys," <i>J. Gen. Virol.</i> 78:2329-2333, Society for General Microbiology, London, England (1997).				
2	AT	2	Lyamichev, V., et al., "Structure-Specific Endonucleolytic Cleavage of Nucleic Acids by Eubacterial DNA Polymerases," <i>Science</i> 260:778-783, Association for the Advancement of Science, Washington D.C. (1993).				

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	AN						Yes No
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	AP						Yes No

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2	AR	10	Maury, G., et al., "Template. Phosphorothioate Oligonucleotides Duplexes As Inhibitors of HIV-1 Reverse Transcriptase," <i>Biochem. Biophys. Res. Commun.</i> 186:1249-1256, Academic Press, Inc., Orlando, FL (1992).
R	AS	10	Mullis, K., et al., "Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 51:263-273, Cold Spring Harbor Laboratory Of Quantitative Biology, Cold Spring Harbor NY, (1986).
N	AT	10	Nakaya, T., et al., "Decoy Approach Using RNA-DNA Chimera Oligonucleotides To Inhibit the Regulatory Function of Human Immunodeficiency Virus Type 1 Rev Protein," <i>Antimicrobiol. Agents Chemother.</i> 41:319-325, American Society For Microbiology Washington D.C. (1997).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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2	AR	11	Nazarenko, I.A., et al., "A closed tube format for amplification and detection of DNA based on energy transfer," <i>Nucl. Acids Res.</i> 25:2516-2521, Oxford University Press, Oxford, England (1997).
2	AS	11	Ozaki, H., and McLaughlin, L.W., "The estimation of distances between specific backbone-labeled sites in DNA using fluorescence resonance energy transfer," <i>Nucl. Acids Res.</i> 20:5205-5214, Oxford University Press, Oxford, England (1992).
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4980002/RWE/KKV	APPLICATION NO. 09/599,594
	APPLICANT Nazarenko et al.	
	FILING DATE June 22, 2000	GROUP 1645

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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2	AR	12	Paris, P.L., et al., "Probing DNA sequences in solution with a monomer-excimer fluorescence color change," <i>Nucl. Acids Res.</i> 26:3789-3793, Oxford University Press, Oxford, England (1998).
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h	AR	13	Schneider, D.J., et al., "High Affinity ssDNA Inhibitors of the Reverse Transcriptase of Type 1 Human Immunodeficiency Virus," <i>Biochem.</i> 34:9599-9610, American Chemical Society, Washington D.C. (1995).
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2	AR	14	Soltis, D.A., and Skalka, A.M., "The α and β chains of avian retrovirus reverse transcriptase independently expressed in <i>Escherichia coli</i> : Characterization of enzymatic activities," <i>Proc. Natl. Acad. Sci. USA</i> 85:3372-3376, National Academy of Sciences of the USA, Washington, D.C. (1988).
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2	AR	15	Wang, Y., et al., "Rapid Sizing of Short Tandem Repeat Alleles Using Capillary Array Electrophoresis and Energy-Transfer Fluorescent Primers," <i>Anal. Chem.</i> 67:1197-1203, American Chemical Society, Washington D.C. (1995).
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

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